

Appn. Number: 10/050,193 Reply to Non-Compliant Amendment of 11/8/04, and Office action of **Election/Restriction** of 8/8/05

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Reply to Non-Compliant Amendment of 11/8/04 and Office action of 8/8/05

**Amendment to the Claims**

This list of claims is provided to respectfully replace all prior versions, and listings, of claims of the application:

I claim

Claim 1-15 **[canceled]**

Claim **16 [new]** An audio enhancement communication method is provided to a communication system comprising the procedure of:

- a) providing said communication system for communicating enhanced audio signals hereof,
- b) providing at least one audio enhancing circuit employing at least one acoustic input section for inputting original audio signals from at least one output section of an acoustic source, and said at least one audio enhancing circuit is able to process said original audio signals to enhanced acoustic quality value in comparison to provided acoustic quality value of said communication system thereof,
- c) providing at least one communicative channel of said at least one audio enhancing circuit which is able to channel the acoustic enhancement communication procedure of said original audio signals from said acoustic source in at least one communicative direction, or providing at least two communicative channels of said at least one audio enhancing circuit which is able to channel said acoustic enhancement communication procedure of said original audio signals from said acoustic source in at least two communicative directions,

- (b) channeling said acoustic enhancement communication procedure in which said original audio signals from said acoustic source are respectively disposed into the first communicative channel selected from the group of said at least two communicative channels of said at least one audio enhancing circuit; herein, said first communicative channel of said at least one audio enhancing circuit is able to channel said enhanced audio signals to a transmitter in which respectively,
- e) transmitting said enhanced audio signals from said transmitter to a remote communication device to implement the conveyance of said enhanced audio signals, and said enhanced audio signals are further transmitted into an adjacent receiver section in a manner of,

receiving said first communicative channel of said enhanced audio signals which is respectively connected to said communication system to implement said enhanced audio signals for a presentation of enhanced side tone signals therein,

- g) channeling anonymous or impaired quality of remotely communicated signals in a manner of disposing the remotely communicated anonymous or impaired quality signals to the input of the second communicative channel of said at least one audio enhancing circuit selected from the group of said at least two communicative channels; consequently, said second communicative channel is able to respectively channel said acoustic enhancement communication procedure, and said enhanced audio signals are disposed into an adjacent receiver section which is interconnected with said second communicative channel of said at least one audio enhancing circuit thereof.

Claim 17 [new] the audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit further includes control means which are various variable control circuits that are capable of controlling or varying said audio signals, said original audio signals or said enhanced audio signals for selecting subjective value of communication thereof.

Claim 18 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit is an audio circuit capable of improving said original audio signals that derives from said acoustic source, and via, the improved audio signals are adopted to explicitly communicate with a communication system in which the value of the acoustic quality of said communication system hereto enhances to refined value; whereby, said refine value may contain good quality, professional quality or even excellent quality audio signals herein.

Claim 19 [new] The audio enhancement communication method claim 18 wherein said at least one audio enhancing circuit is capable of producing at least one band of audio signals which is employed for enhancing at least one band range of audio tone or pitch and for emphasizing at least one band range value hereof, or said at least one audio enhancing circuit is able to produce three or more bands of audio signals thereby producing at least one band of high-range audio frequency signals which is employed for enhancing at least one high-range audio tone or pitch and for emphasizing at least one high-range value, at least one band of midrange audio frequency signals which is employed for enhancing at least one midrange audio tone or pitch and for emphasizing at least one midrange value and at least one band of low-range audio frequency signals which is employed for enhancing at least one low-range audio tone or pitch and for emphasizing at least one low-range value thereof.

Claim 20 [new] The audio enhancement communication method of claim 16 wherein said transmitter is a transmitter device that is capable of transmitting said enhanced audio signals from said at least one audio enhancing circuit to an adjacent receiver and to a remote communication device; thereby, said adjacent receiver and said remote communication device are employed for communicating said enhanced audio signals to a user.

Claim 21 [new] The audio enhancement communication method of claim 16 wherein said receiver section is a section of a receiver for receiving transmission signals, and said receiver has the capabilities of receiving the enhanced audio signals from the adjacent transmitter and alternatively receives said anonymous or impaired quality remotely communicated signals from said remote communication device; thus, said anonymous or impaired quality remotely communicated signals are able to be channeled by said second communicative channel and enhanced by said at least one audio enhancing circuit hereof.

Claim 22 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit which implements said at least one band of audio signals is capable of being an integral circuit or integrated circuit of at least one second audio enhancing circuit, and the first audio enhancing circuit and said second audio enhancing circuit consequently interacting accordingly with the corporation of interconnecting component thereof.

Claim 23 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit is able to inaccurately or accurately reproduce said audio signals herein which may accordingly contain inadequate, adequate or all overtones, decay and rise time information thereby enhancing said audio signals that respectively emulate from said acoustic source, and if said audio signals are inadequately or inaccurately reproduced during the envelope procedure, said at least one audio enhancing circuit substantially sustains the capability of acoustic enhancement; given that, the audio enhancing circuit is at least of approximate perimeter of the acoustic quality of said communication system thereby compensating thereof with technical components that consequently implements predetermine emphasis to the audio tone hereof despite the acoustic quality content of said envelope procedure herein.

Claim 24 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit is capable of being specified for processing or enhancing voice signals or audio signals that derive from other specified acoustic source of interest herein, and said at least one audio enhancing circuit is able to be individually employed or integrated with other audio enhancing circuit hereof.

Claim 25 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit is capable of producing at least one band of enhanced audio signals which is employed for driving at least one magnetic field or/and enhancing at least one band range of audio tone or pitch or/and accentuating at least one band range value audio tone or pitch of said communication system thereof.

Claim 26 [new] The audio enhancement communication method of claim 25 wherein said at least one band of audio signals produced by said at least one audio enhancing circuit is at least one narrow band of audio signals or at least one broadband of audio signals for specifically emphasizing specified perimeter of audio tone thereby inducing magnificent perception for magnificently communicating the enhanced audio signals to a verbal-simplex or duplex communication system in which communicates said enhanced audio signals to a user thereof.

Claim 27 [new] The audio enhancement communication method of claim 16 wherein said at least one audio enhancing circuit is an audio processing unit, an audio preamplifier circuit, an audio equalizer circuit, an audio amplifier circuit, an audio filter circuit, an audio enhancing circuit that employs at least one broadband range of audio signals, an audio enhancing circuit, such as, said audio equalizer circuit that is able to employs at least one band or at least three bands of audio signals, a frequency divider circuit, such as, a crossover network circuit that employs at least two or at least three bands of audio signals or other audio enhancing circuit thereof.

Claim 28 [new] The audio enhancement communication method of claim 27 wherein said at least one audio enhancing circuit is at least one section of an audio enhancing circuit such as said audio preamplifier circuit, said audio equalizer circuit, said audio amplifier circuit, the audio signal processing circuit, said audio filter circuit, said crossover network circuit or other audio enhancing circuit of this nature.

Claim 29 [new] An acoustical enhancement communicational method of communicating enhanced acoustic signals with a communication system, comprising the process of:

- a) providing said communication system for communicating the enhanced audio signals,
- b) providing at least one audio enhancing circuit employing at least one input section that is capable of inputting original audio signals that emits from at least one output section of at least one acoustic source, and said at least one audio enhancing circuit, herein, is capable of enhancing said audio signals that emits from said at least one output section of said at least one acoustic source thereof,
- c) providing at least one communicative channel of said at least one audio enhancing circuit which is capable of channeling the acoustic enhancement communication procedure in a simplex mode or at least two communicative channels of said at least one audio enhancing circuit which is capable of channeling said acoustic enhancement communication procedure in a duplex mode hereof,
- d) channeling said original audio signals which emits from said at least one output section of said at least one acoustic source in said duplex mode of said at least one audio enhancing circuit; in which, said original audio signals of said acoustic source are respectively disposed into the first communicative channel of said at least one audio enhancing circuit, and therein, said first communicative channel hereof channeling said acoustic enhancement communication procedure of said original audio signals thereof, and said first communicative channel of said at least one audio enhancing circuit channels said enhanced audio signals to a transmitter; consequently, said transmitter

- e) transmitting said enhanced audio signals in a first mode which is the transmission mode, and said enhanced audio signals from said at least one audio enhancing circuit are able to be received at a remote communication device as enhanced audio signals, and corresponding communication signals from said remote communication device are able to be enhanced in a manner of,
- f) channeling the remotely communicated receivable signals into the second communicative channel of said at least one audio enhancing circuit for distinctively channeling said acoustic enhancement communication procedure of said at least one audio enhancing circuit; in that manner, the input of said second communicative channel of said at least one audio enhancing circuit is interconnected at an output section of at least one integral circuit of an adjacent receiver; therein, said at least one audio enhancing circuit is able to enhance said remotely communicated receivable signals and subsequently dispose the enhanced remotely communicated signals to at least one subsequent circuit of said adjacent receiver thereof; where said adjacent receiver is capable of
- g) receiving said first communicative channel of enhanced audio signals of said at least one audio enhancing circuit from the adjacent transmitter to said adjacent receiver; in which, said at least one audio enhancing circuit enhances the quality value of side tone audio signals of said communication system thereof,

Claim 30 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one acoustic source is a transducer such as a microphone, an audio reproductive device such as an audio device that reproduce or playback audio signals or an audio tone generator device, such as, an audio device that generates audio signals, and thereby, said at least one audio enhancing circuit is capable of enhancing said audio signals that outputs from said at least one output section of said at least one acoustic source for communicating magnificently enhanced audio signals herein.

Claim 31 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one audio enhancing circuit is at least one audio circuit that is capable of improving audio signals that derive from said at least one acoustic source, such as a vocal source in which the improved audio signals are adopted to explicitly communicate to a communication system, and said at least one audio enhancing circuit is capable of improving audio signals that is at least in part of "telephone quality" acoustic value; thereby, said at least one audio enhancing circuit is able to enhance said audio signals from the approximate perimeter of said "telephone quality" acoustic value to refined quality value in which may be at least in part of advanced quality, good quality, professional quality or even excellent quality audio signals hereof.

Claim 32 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one communicative channel or said at least two communicative channels of said at least one audio enhancing circuit each employs said at least one input section and an at least one output section; whereby, said at least one audio enhancing circuit and the communicative channels are capable of inputting said original audio signals to the input section of the selected communicative channel which thereby channels said acoustic enhancement procedure and output said enhanced audio signals to a subsequent circuit of said communication system hereof.

Claim 33 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one audio enhancing circuit employs at least one band of audio signals for specifically emphasizing specified range of audio tone thereby inducing magnificent perception for magnificently communicating said enhanced audio signals to a user thereof.

Claim 34 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one audio enhancing circuit is integrated with or is an audio improvement circuit such as an audio processing circuit, an audio compression circuit an audio preamplifier circuit, an audio equalizer circuit, an audio amplifier circuit, an audio filter circuit, an acoustic frequency divider circuit or/ and other audio enhancing circuit, and thereby, said at least one audio enhancing circuit is capable of pre-amplifying, processing, equalizing, compressing, amplifying or dividing said audio signals, and therein, said enhanced audio signals are able to be disposed to said communication system; wherein, said communication system is a system of communication such as a telephone, a two-way radio, a C.B radio, an amateur radio or other communication system thereof.



Claim 35 [new] The acoustical enhancement communicational method of claim 34 wherein said at least one audio enhancing circuit is at least one section of an audio enhancing circuit such as said audio preamplifier circuit, said audio equalizer circuit, said audio amplifier circuit, said audio processing circuit, said audio filter circuit or other audio enhancing circuit that enhances quality value of audio signals thereby reproducing said value of audio signals to enhanced quality value hereof.

Claim 36 [new] The acoustical enhancement communicational method of claim 29 wherein said at least one audio enhancing circuit further includes control means consisting of control circuits that are able to employ said at least two communicative channels which is said first communicative channel and said second communicative channel; in which, said first communicative channel and said second communicative channel of said at least one audio enhancing circuit are able to be controlled by one control unit hereby enabling equivalent control respectively to said first communicative channel, or said second communicative channel of said at least one audio enhancing circuit is further capable of alternatively employing two independent control units; hereby, the first control unit is able to separately control said first communicative channel as an independent control unit, and the second control unit is capable of separately controlling said second communicative channel as a second independent control unit therefore enabling distinctive control thereof, or from another alternative aspect, said at least one audio enhancing circuit is able to provide fixed components; whereby, said fixed components is capable of

- a) fixing the enhanced acoustic value of said at least one audio enhancing circuit; in a manner in which, said at least one audio enhancing circuit, acoustically enhancing said communication system at fixed values or rate hereof thereby employing said fixed components herein, such as, fixed capacitors, fixed resistors, fixed inductors, etc; thus, said at least one audio enhancing circuit would be fixed at predetermine perimeter that is determined by the specification of the application hereof.

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Office action of 8/8/05

**Amendments to the Specification:**

Please replace this section of the specification page [69 to page 70] with the following amended section of the specification:

**Audio-Cell Acoustic Enhancement Communication**

**Abstract**

[Page 69-70] A communication system **(77)** comprising at least one audio enhancing circuit **(47)** consisting of at least one input port or input section which is capable of inputting original audio signals from at least one output port or output section of at least one acoustic source such a microphone. Furthermore, said at least one audio enhancing circuit is capable of enhancing said original audio signals to magnificently enhanced quality value that is at least in part of intelligible perimeter, in which is important for reasonable perception. Said magnificently enhanced quality value extends from the acoustic value of "telephone quality audio signals" thereto enhanced acoustic value. Thereby, said at least one audio enhancing circuit further employs at least one or two communicative channels which are able to channel the acoustic enhancement communication procedure in a simplex or duplex mode thereof and provides at least one band of audio signals or at least three bands of audio signals that is able to band predetermine audio signals for the emphasis of audio tone herein, and control means are provided to the audio enhancing circuit for controlling said audio signals and to provide a user with the option of subjective control while communicating said audio signals, or said at least one audio enhancing circuit is able to provide fixed components herein such as fixed capacitors, fixed resistors, fixed inductors, et cetera for the implementation of fixed enchantment acoustic quality value thereof.

Furthermore, for the conveyance of unlimited band quality audio signals over a communication spectrum, such as a voice frequency spectrum, multiplexing means are provided which is able to communicate the enhanced quality of audio signals in accordance with the degree of the conveying signals that is applied to the application hereof. Said at least one audio enhancing circuit is recited as at least one section of, may be integrated with, or is an audio processing circuit, an audio preamplifier circuit, an audio equalizer circuit, an audio frequency divider circuit, other audio circuits that are capable of possessing or/and enhancing audio signals for connecting to a communication system. The three bands of audio signals of said audio enhancing circuit is able to employ at least one band of high-range audio frequency signals (74) which may be specified at an approximate value that is capable of vocal accentuation for which is important for intelligibility and the manipulation of clarity, at least one band of midrange audio frequency signals (75) which may be of specified value which are important for audio quality and at least one band of low-range audio frequency signals (76) which may be of specified value that are fundamental to audio signals herein. Thereby, each band of audio signals is stressed to implement magnificent perception therein. The adjacent receiver section (85) may further comprise a dispensable output section for voluntarily coupling externally to an independent audio system.